40 CFR Part 63, Subpart GGGGG – Equipment Leaks - Requirements Reference Tables

MACT GGGGG – Equipment Leaks - Standards

- §63.7887(b) HAP emission standard for equipment leaks subject to another subpart in 40 CFR part 61 or 40 CFR part 63.
- §63.7920(b)(1)|1 Alternative means of emission limitation for equipment leaks under 40 CFR part 63, subpart TT.
- §63.7920(b)(1)|2 Equipment leak standard under 40 CFR part 63, subpart TT for connectors in gas and vapor service and in light liquid service.
- §63.7920(b)(1)|3 Equipment leak standard for agitators in gas and vapor service or in light liquid service.
- §63.7920(b)(1)|4 Equipment leak standard under 40 CFR part 63, subpart TT for pumps in heavy liquid service.
- §63.7920(b)(1)|5 Equipment leak standard under 40 CFR part 63, subpart TT for valves in heavy liquid service.
- §63.7920(b)(1)|6 Equipment leak standard under 40 CFR part 63, subpart TT for connectors in heavy liquid service.
- §63.7920(b)(1)|7 Equipment leak standard under 40 CFR part 63, subpart TT for agitators in heavy liquid service.
- §63.7920(b)(1)|8 Equipment leak standard under 40 CFR part 63, subpart TT for instrumentation systems.
- §63.7920(b)(1)|9 Equipment leak standard under 40 CFR part 63, subpart TT for compressors.
- §63.7920(b)(1)|10 Equipment leak standard under 40 CFR part 63, subpart TT for sampling connection systems.
- §63.7920(b)(1)|11 Equipment leak standard under 40 CFR part 63, subpart TT for open-ended valves or lines.
- §63.7920(b)(1)|12 Equipment leak standard under 40 CFR part 63, subpart TT for closed vent systems and non-flare control devices reducing emissions by 95 percent or greater.
- §63.7920(b)(1)|13 Equipment leak standard under 40 CFR part 63, subpart TT for closed vent systems and non-flare control devices reducing emissions to a concentration of 20 parts per million volume.
- §63.7920(b)(1)|14 Equipment leak standard under 40 CFR part 63, subpart TT for closed vent systems and enclosed combustion control devices reducing emissions to provide a minimum of 760 °C (1400°F).
- §63.7920(b)(1)|15 Equipment leak standard under 40 CFR part 63, subpart TT for closed vent systems and flares.
- §63.7920(b)(1)|16 Equipment leak standard under 40 CFR part 63, subpart TT for emissions routed to a fuel gas system or process.
- §63.7920(b)(1)|17 Alternative means of emission limitation under 40 CFR part 63, subpart TT for enclosed-vented process units.
- §63.7920(b)(2)|1 Alternative means of emission limitation for equipment leaks under 40 CFR part 63, subpart UU.
- §63.7920(b)(2)|2 Equipment leak standard under 40 CFR part 63, subpart UU for valves in gas and vapor service and in light liquid service.
- §63.7920(b)(2)|3 Equipment leak standard under 40 CFR part 63, subpart UU for pumps in

light liquid service.

- §63.7920(b)(2)|4 Equipment leak standard under 40 CFR part 63, subpart UU for pumps equipped with a dual mechanical seal system.
- §63.7920(b)(2)|5 Equipment leak standard under 40 CFR part 63, subpart UU for pumps designed with no externally actuated shaft penetrating the pump housing.
- §63.7920(b)(2)|6 Equipment leak standard under 40 CFR part 63, subpart UU for pumps routed to a process or fuel gas system or equipped with a closed vent system.
- §63.7920(b)(2)|7 Equipment leak standard under 40 CFR part 63, subpart UU for connectors in gas and vapor service and in light liquid service.
- §63.7920(b)(2)|8 Equipment leak standard under 40 CFR part 63, subpart UU for agitators equipped with a dual mechanical seal system.
- §63.7920(b)(2)|9 Equipment leak standard under 40 CFR part 63, subpart UU for agitators designed with no externally actuated shaft penetrating the pump housing.
- §63.7920(b)(2)|10 Equipment leak standard under 40 CFR part 63, subpart UU for agitators routed to a process or fuel gas system.
- §63.7920(b)(2)|11 Equipment leak standard under 40 CFR part 63, subpart UU for pumps in heavy liquid service.
- §63.7920(b)(2)|12 Equipment leak standard under 40 CFR part 63, subpart UU for valves in heavy liquid service.
- §63.7920(b)(2)|13 Equipment leak standard under 40 CFR part 63, subpart UU for connectors in heavy liquid service.
- §63.7920(b)(2)|14 Equipment leak standard under 40 CFR part 63, subpart UU for agitators in heavy liquid service.
- §63.7920(b)(2)|15 Equipment leak standard under 40 CFR part 63, subpart UU for instrumentation systems.
- §63.7920(b)(2)|16 Equipment leak standard under 40 CFR part 63, subpart UU for compressors.
- §63.7920(b)(2)|17 Equipment leak standard under 40 CFR part 63, subpart UU for compressors equipped with systems that capture and transport leakage.
- §63.7920(b)(2)|18 Equipment leak standard under 40 CFR part 63, subpart UU for compressors operating less than 500 ppm above background levels.
- §63.7920(b)(2)|19 Equipment leak standard under 40 CFR part 63, subpart UU for sampling connection systems.
- §63.7920(b)(2)|20 Equipment leak standard under 40 CFR part 63, subpart UU for open-ended valves or lines.
- §63.7920(b)(2)|21 Equipment leak standard under 40 CFR part 63, subpart UU for batch processes operating in regulated material service.
- §63.7920(b)(2)|22 Equipment leak standard under 40 CFR part 63, subpart UU for agitators in gas/vapor or in light liquid service
- §63.7920(b)(2)|23 Alternative means of emission limitation for enclosed-vented process units under 40 CFR part 63, subpart TT.
- §63.7920(b)(2)|24 Equipment leak standard under 40 CFR part 63, subpart UU for equipment leaks routed to a fuel gas system or process.
- §63.7920(b)(2)|25 Equipment leak standard under 40 CFR part 63, subpart UU for closed vent systems and non-flare control devices reducing emissions with an efficiency of 95 percent or greater.
- §63.7920(b)(2)|26 Equipment leak standard under 40 CFR part 63, subpart UU for closed

vent system and non-flare control devices reducing emissions to an exit concentration of 20 parts per million volume.

- §63.7920(b)(2)|27 Equipment leak standard under 40 CFR part 63, subpart UU for closed vent systems and combustion control devices reducing emissions with an efficiency of 95 percent or greater.
- §63.7920(b)(2)|28 Equipment leak standard under 40 CFR part 63, subpart UU for closed vent systems and combustion control devices reducing emissions to a concentration of 20 parts per million volume.
- §63.7920(b)(2)|29 Equipment leak standard under 40 CFR part 63, subpart UU for closed vent systems and combustion control devices providing a minimum residence time of 0.5 seconds at a minimum of 760 °C.
- §63.7920(b)(2)|30 Equipment leak standard under 40 CFR part 63, subpart UU for closed vent systems and flares.
- §63.7920(b)(3)(i) Equipment leak standard for valves in gas and vapor service and in light liquid service complying with §63.1006(b)(2), the instrument reading that defines a leak is 500 parts per million or greater.
- §63.7920(b)(3)(ii)|1 Equipment leak standard for pumps handling polymerizing monomers, the instrument reading that defines a leak is 5,000 parts per million or greater.
- §63.7920(b)(3)(ii)|2 Equipment leak standard for pumps in medical/food service, the instrument reading that defines a leak is 2,000 parts per million or greater.
- §63.7920(b)(3)(ii)|3 Equipment leak standard for pumps not handling polymerizing monomers or in medical/food service, the instrument reading that defines a leak is 1,000 parts per million or greater.
- §63.7920(c) Alternatives to §63.1015 and §63.1034 for closed vent systems and control devices used to comply with this section.
- §63.7920(e)|1 Equipment leak standard per 40 CFR part 63, subpart TT for pressure relief devices in liquid service under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart TT.
- §63.7920(e)|2 Equipment leak standard per 40 CFR part 63, subpart UU for pressure relief devices in liquid service under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart UU.
- §63.7920(e)|3 Equipment leak standard per 40 CFR part 63, subpart TT for pressure relief devices in gas or vapor service under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart TT.
- §63.7920(e)|4 Equipment leak standard per 40 CFR part 63, subpart UU for pressure relief devices equipped with a rupture disk upstream of the pressure relief device under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart UU.
- §63.7920(e)|5 Equipment leak standard per 40 CFR part 63, subpart UU for pressure relief devices in gas or vapor service and routed to a process, fuel gas system, or a closed vent system and control device under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart UU.
- §63.7920(e)|6 Equipment leak standard per 40 CFR part 63, subpart UU for pressure relief devices in gas or vapor service under normal operating conditions, the instrument reading of less than 500 ppm above the background level per 40 CFR Part 63 Subpart UU.
- §63.7920(f) Alternative means of compliance (AMOC) to work practice standards in section §63.7920.

These relationship entry screens and flowcharts are for use by sources subject to the Texas Federal Operating Permits Program only and are subject to revision.

Last Modified: July 13th, 2022